



## Élan™SC400 Microcontroller Evaluation Board



## PRODUCT BRIEF

# Élan™SC400 Microcontroller Evaluation Board: A Complete Evaluation, Debugging, and Prototyping System

The ÉlanSC400 microcontroller evaluation board provides a common platform for designs based on the AMD ÉlanSC400 microcontroller. This evaluation board features the ÉlanSC400 microcontroller, the latest in a series of E86™ family microcontrollers that utilizes the AMD *Systems in Silicon*™ design philosophy—combining the industry proven Am486® CPU core with a comprehensive set of peripherals in an advanced 0.35 micron process.

The majority of options and features of the ÉlanSC400 microcontroller can be demonstrated using the ÉlanSC400 microcontroller evaluation board. Since there are numerous options and debug features available, this board is a larger form factor than could be achieved with a dedicated set of features. This evaluation board can be used to experiment with design trade-offs, make power measurements, and develop software and firmware for the ÉlanSC400 microcontroller.

Features	Benefits
<ul style="list-style-type: none"> <li>- One platform for evaluation, debugging, and prototyping</li> </ul>	<ul style="list-style-type: none"> <li>- Common reference platform for fast evaluation, prototyping and debugging of designs</li> </ul>
<b>ÉlanSC400 Features</b> <ul style="list-style-type: none"> <li>- One 16C550-compatible serial port</li> <li>- IrDA interface</li> <li>- One EPP-compatible parallel port</li> <li>- Two PC card slots</li> <li>- Two ISA bus slots</li> <li>- A Matrix keyboard connector</li> <li>- An XT keyboard connector</li> <li>- A 3.3-V VESA local bus interface</li> <li>- Analyzer headers for all ÉlanSC400 signals</li> </ul>	
<b>Additional Board Features</b> <ul style="list-style-type: none"> <li>- Two 16C550-compatible serial ports</li> <li>- High speed IrDA infrared interface</li> <li>- IDE hard-disk-drive interface</li> <li>- A floppy disk controller</li> <li>- An AT keyboard</li> <li>- A PS/2 mouse</li> </ul>	
<ul style="list-style-type: none"> <li>- DOS and Windows compatibility</li> </ul>	<ul style="list-style-type: none"> <li>- ÉlanSC400 integrated features connected to standard interfaces for ease of use and design and testing</li> <li>- Evaluation board peripherals taken from the PC/AT environment for faster/easier code development</li> </ul>
<ul style="list-style-type: none"> <li>- Integrated power management</li> </ul>	<ul style="list-style-type: none"> <li>- Integrated PC/AT compatibility</li> <li>- BIOS and PC card support provided by Phoenix Technologies and SystemSoft</li> <li>- Flexible operating speeds up to 66 MHz and down to 0 MHz</li> <li>- Supports multiple operating modes</li> <li>- Full control of system and internal peripheral clocks</li> </ul>

The ÉlanSC400 microcontroller contains an Am486 CPU core providing up to 33-MHz bus operation, 105-Mbps burst mode, internal PLLs capable of multiplying the clock speed to 66 MHz, and a 16- or 32-bit wide data path. The ÉlanSC400 microcontroller exclusively integrates several standard I/O interfaces which control: one 16550-compatible serial port, one high speed IrDA device for infrared serial communication, one EPP-compatible parallel port, two PC card slots, two ISA bus slots, a matrix keyboard, an XT keyboard, and a 3.3-V VESA local bus. A variety of memory options also complement the ÉlanSC400 CPU, including 3.3-V, 70-ns EDO DRAM SIMMs. All of these features combined offer designers a comprehensive tool for ÉlanSC400 microcontroller evaluation and design prototyping.

The ÉlanSC400 microcontroller evaluation board also offers built-in debugging options for designers. The evaluation board supports a full complement of Super I/O peripheral interfaces (provided on the board for development purposes) that provide an environment more like a desktop PC for development, including: two 16550-compatible serial ports, one IrDA device for infrared serial communication, one IDE hard-disk drive connector, one floppy-disk connector, an AT keyboard controller, and one PS/2-style mouse connector.

The ÉlanSC400 microcontroller evaluation board is shipped with evaluation BIOS' from Phoenix Technologies and SystemSoft, which have been configured specifically for the board. The BIOS contains the code that allows the ÉlanSC400 microcontroller evaluation board to function just like a standard AT-compatible PC. The ÉlanSC400 microcontroller evaluation board can boot from standard AT-compatible diskettes and can use AT-compatible displays, display adapters, and keyboards.

For additional information on the ÉlanSC400 microcontroller or the ÉlanSC400 microcontroller evaluation board, contact your local AMD sales office or AMD sales representative.

## Additional E86 family literature:

ÉlanSC400 microcontroller product brief, order #21026  
E86 family product brochure, order # 19181  
E86 family comparative features chart, order # 19257  
FusionE86<sup>SM</sup> tools product brief, order # 20071



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